

Application No.: 10/823,173
Amendment dated: September 6, 2005
Reply to Office Action of May 3, 2005
Attorney Docket No.: 22176.0003.con

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (Currently Amended) A wire comprising a sheath encapsulating a core having a core composition, the core composition comprising a combination of graphite and one or more compounds of potassium, the combination of graphite and compounds of potassium in the core composition not exceeding approximately 5% by weight and wherein the compounds of potassium comprise K_2MnTiO_4 and K_2SO_4 .
2. (Cancelled)
3. (Original) The wire of Claim 1, wherein the combination of graphite and one or more compounds of potassium in the core composition is selected from the range of about 0.3% to about 5% by weight.
4. (Cancelled)
5. (Currently Amended) A process of manufacturing a metal-cored wire comprising:
shaping a metal sheath into a fillable shape;
filling the sheath with a core composition to form a core, the core composition comprising a combination of graphite and one or more compounds of potassium, wherein the compounds of potassium comprise K_2MnTiO_4 and K_2SO_4 the combination not exceeding approximately 5% by weight; and encapsulating the core by the sheath to form a metal-cored wire.

Application No.: 10/823,173
Amendment dated: September 6, 2005
Reply to Office Action of May 3, 2005
Attorney Docket No.: 22176.0003.con

6. (Cancelled)

7. (Original) The process of Claim 5 wherein the core composition is a powder.

8. (Original) The process of Claim 5, wherein the combination is selected from a range of about 0.3% to about 5.0% by weight.

9. (Cancelled)